

Fig. 1

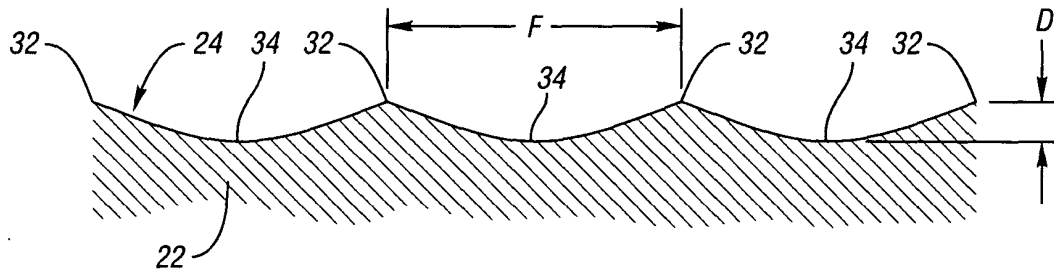
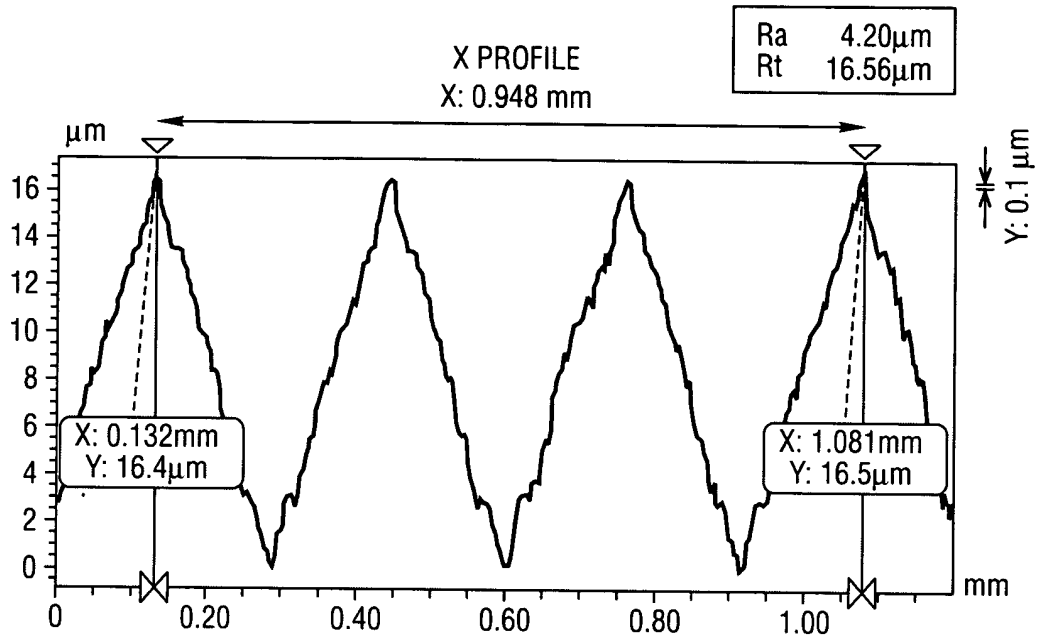
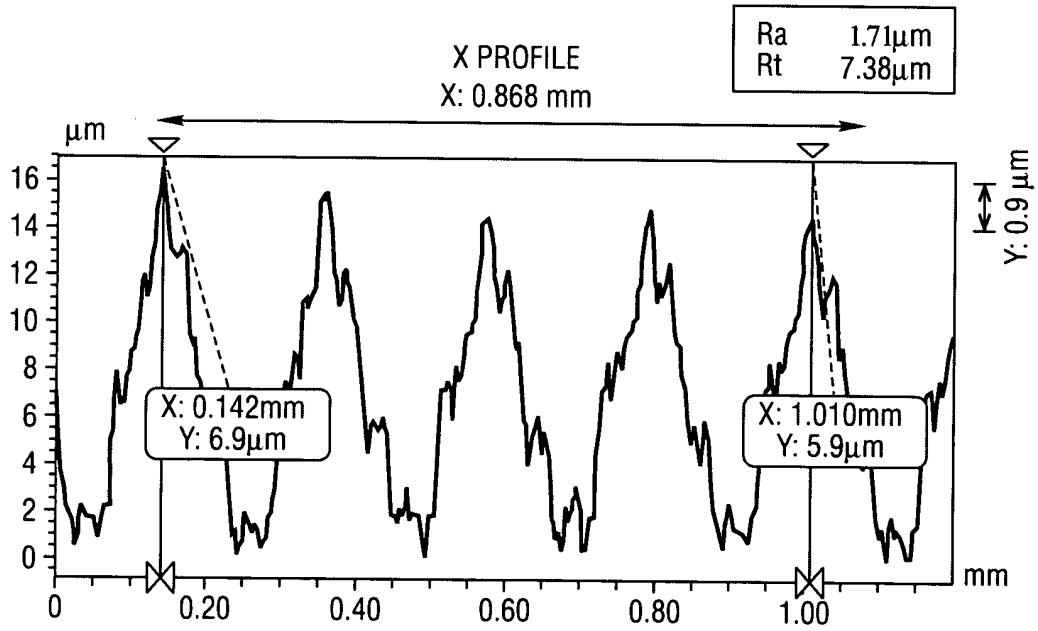


Fig. 2a

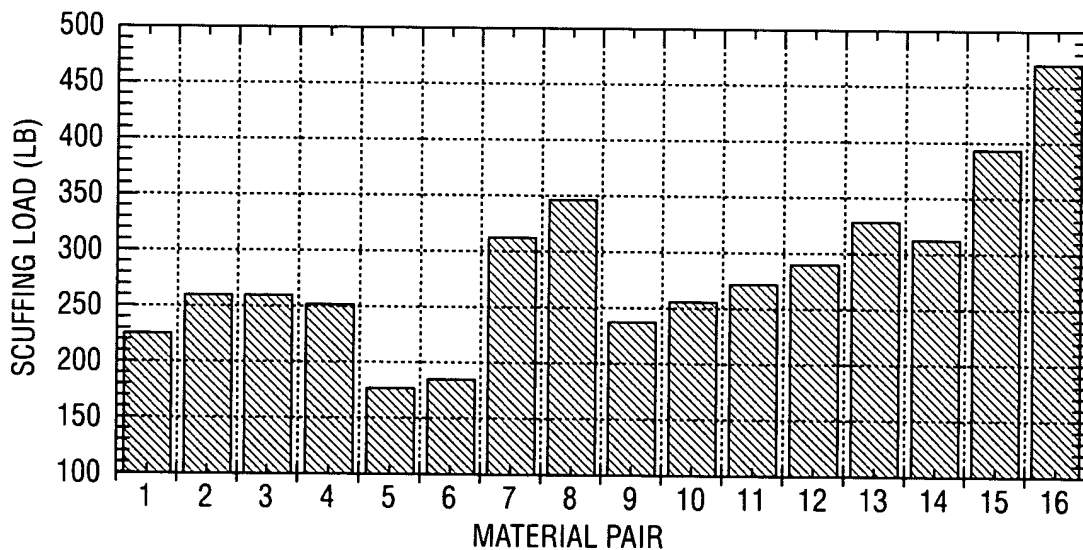
	DEFINITION	UNIT	SURFACE MACHINING	
			ROUGH (PRIOR ART)	SMOOTH
D(Rt)	DEPTH	μm	13-19	6-8
F	FEEDRATE	mm/REVOLUTION	0.32	0.22

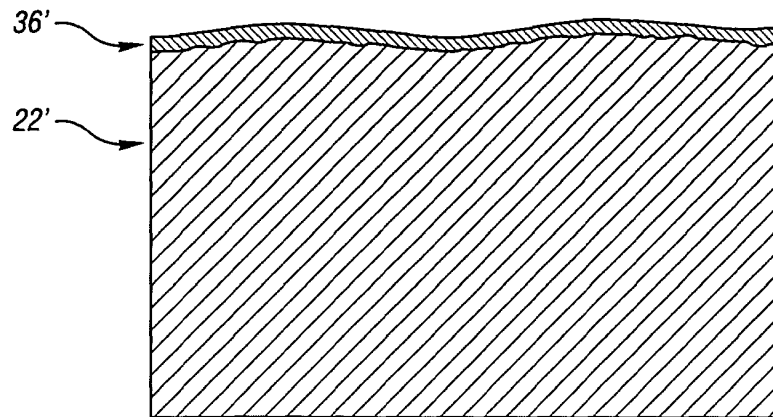
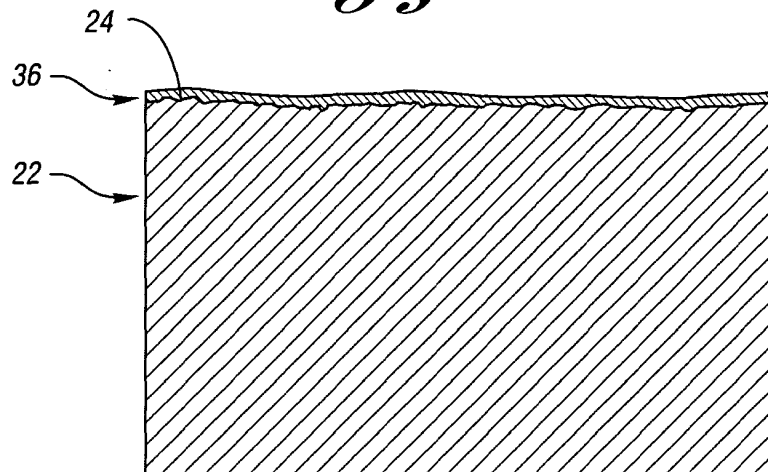
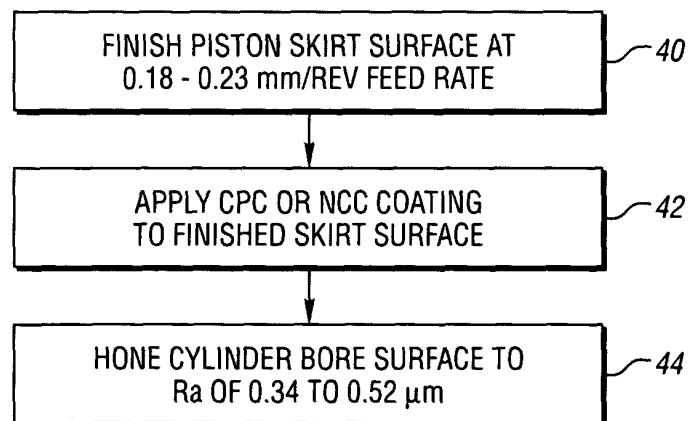
Fig. 2b

*Fig. 3 (PRIOR ART)**Fig. 4*

SCUFFING LOAD

	PISTON	LINER (BORE)	SCUFFING LOAD (LB)
1	NO COATING, ROUGH	ROUGH	225, 250, 200, 225; AVE. 225
2	NO COATING, ROUGH	SMOOTH	250, 275, 250; AVE. 258
3	NO COATING, SMOOTH	ROUGH	250, 275, 250; AVE. 258
4	NO COATING, SMOOTH	SMOOTH	225, 275; AVE. 250
5	NCC COATING, ROUGH	ROUGH	150, 175, 175, 200, 175; AVE. 175
6	NCC COATING, ROUGH	SMOOTH	175, 200, 175; AVE. 183
7	NCC COATING, SMOOTH	ROUGH	275, 300, 350; AVE. 308
8	NCC COATING, SMOOTH	SMOOTH	300, 350, 400, 325; AVE. 344
9	TIN COATING, ROUGH	ROUGH	225, 225, 250; AVE. 233
10	TIN COATING, ROUGH	SMOOTH	225, 250, 250; AVE. 242
11	TIN COATING, SMOOTH	ROUGH	275, 275, 275, 250; AVE. 269
12	TIN COATING, SMOOTH	SMOOTH	275, 300, 275, 300; AVE. 287
13	CPC COATING, ROUGH	ROUGH	325, 300, 350; AVE. 325
14	CPC COATING, ROUGH	SMOOTH	300, 300, 325; AVE. 308
15	CPC COATING, SMOOTH	ROUGH	425, 400, 375, 375; AVE. 394
16	CPC COATING, SMOOTH	SMOOTH	450, 475, 475; AVE. 467

Fig. 5a*Fig. 5b*

*Fig. 6a**Fig. 6b**Fig. 7*